



McGill's quiet study of fuel air explosions

by Albert Nerenberg and Mark Smith

On the second floor of the MacDonald Engineering Building is a large room filled with a series of long steel pipes and canisters of compressed gas. The United States Air Force and Canada's Department of National Defence have contributed hundreds of thousands of dollars towards the equipment in this lab. Two McGill Mechanical Engineering professors explode gases in the pipes as part of their research into explosion safety. Their work is applied to preventing some of the frequent accidents caused by gas explosions.

But, in this case, something else concerns the Defense Department more than avoiding industrial accidents.

They are developing the "fuel air bomb".

The Canadian military is using their research to develop a particular type of a little known munition called a Fuel Air Explosive (FAE). FAEs are classified by the Stockholm International Peace Research Institute as "inhumane and indiscriminate weapons." They are more powerful than conventional explosives and, when used on a large scale, rank closely behind nuclear warheads for potential explosive damage. They have many advantages as anti-personnel weapons. An FAE weapon can be disseminated over areas as a heavy vapor which seeps into buildings and military foxholes.

It can then be detonated, creating a high pressure shock wave followed by a fireball.

At Jimmy Carter's first press conference following his election to the U.S. Presidency in 1977, he was asked whether he would consider a ban on the export of FAEs. In the summer of 1982, Israel was accused of having used FAEs in the bombing of Beirut.

The two McGill professors, Dr. R. Knystautas and Dr. J.H.S. Lee, say they aren't concerned with the practical applications of their work. They are scientists.

The McGill experiments take place inside reinforced steel

pipes where a powerful detonation is heard as a "ping". A graduate student in the lab, who later asked not to be identified, pointed at one of the long tubes through which the fuel air is transported.

"That tube cost \$100,000," he said, referring to a thirty-foot pipe two or three feet in diameter.

"The defence department paid for it. They paid for most of this laboratory. Without their support we wouldn't be able to afford it."

He added that "99 per cent" of the work done there has peaceful applications.

The professors insist their

research is basic science. However, Knystautas and Lee signed McGill Contract O3SU 97702-0-2691 (see contract box) with the DND for \$200,208 in April of 1980 agreeing to do

basic research, but specifically in the field of FAEs.

The contract states: "The goal of the research is to properly assess the effects associated with a Fuel Air Explosive device." The contract refers to the need for Canadian expertise in the "fundamental background" of FAEs.

According to the contract, the Defence Research Establishment in Suffield, Alberta was, at that time, developing experimental facilities for FAE testing.

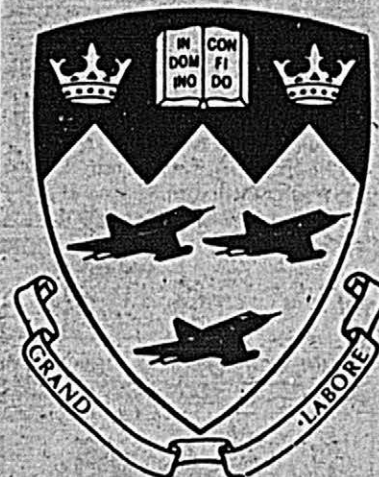
Knystautas told the *Daily* that he drafts his own grant proposals.

But when asked if he recognised this contract, he said "I don't remember."

The principle of FAEs was first studied during World War II but according to the Stockholm Institute (1979), "it was only during the past decade that the technical problems of dispersing and detonating the gas at the right moment were solved. There is considerable room for future development."

Both Knystautas and Lee say the practical applications of their research are in safety.

"A tanker truck is a bomb on wheels," explained Knystautas. He said fuel accidents, such as natural gas explosions, are common but knowledge about them is limited. Knystautas and Lee were expert witnesses at the inquiry into the Mississauga disaster several years ago when large parts of the city had to be



evacuated after a train carrying a cargo of fuels and noxious gases derailed and exploded.

Knystautas and Lee's research illustrates the ethical dilemma facing universities which accept research funding from military sources. According to Principal David Johnston, McGill is the leading research university in the country. It ranks among the top five Canadian universities for research grants from the military. The area around Montréal has the highest concentration of military research.

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CLASSIFIEDS

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Newspaper pulled

College paper calls Pope 'comfy'

by Peter Kuitenbrouwer
for Canadian University Press

Officials at the Catholic-run Marianopolis College in Montréal seized all copies of the student newspaper, *The Paper*, because of a comment about Pope John Paul II. The issue featured a full-cover photo of the Pope. An article printed on his robe read, in part, "as a comfy, well-fed clergy-man, the Pope is singularly unqualified to comment on unemployment, marriage or drugs."

Another longer article on the page was favourable to the Pontiff.

An hour after the newspaper appeared on the stands, student services employees swept through the school, taking away copies and fishing newspapers out of garbage cans.

Tom Nowers, co-ordinator of Students Services at Marianopolis, told Sheiba Khan, one of the *Paper* editors, that the article "cut deep into the heart of what many of us believe."

Jean Connors, secretary to the president of Marianopolis, Sister Breen, denied the administration had any involvement in seizing the paper.

Connors said students took the initiative to stop distribution of the edition.

However, Thomas Janson, president of the Marianopolis student congress, said stopping distribution was not a student idea.

"Tom Nowers, co-ordinator of student services, asked me to help pick them up," Janson

said.

The front page article also noted "The Catholic Church's position on birth control, abortion and homosexuality are archaic and downright oppressive."

"We wanted to have two opinions (about the Pope)," Khan said. "We thought it would be an interesting comment."

The Congregation de Notre Dame, a Catholic order of nuns, has the charter to operate Marianopolis as "a private institution in the public interest."



Don't call this man a "comfy well-fed clergy-man"

British unions blamed for management mess

by Steve Watts

Trade Unions are blamed for everything from moral decay to staggering government deficits, and are accused of being too powerful.

However, a well-known British economist believes otherwise, and says limited powers are the only way unions can survive in the present conservative British climate.



Yesterday the peasants, today the miners and tomorrow the House of Lords

Lord William McCarthy, an Oxford professor and active labour mediator in the United Kingdom, gave two lectures last week at McGill which focused on the British Trade Union movement and the Thatcher government reaction to it. McCarthy said trade unions

raise money-wages for their members by anywhere from four to 40 per cent over non-unionized workers. But, he said, unions cannot actually influence real wages over the long term.

Real wages, he said, respond to increased productivity, and

are manipulated by management as a tool "to create commitment, maximize performance, improve morale. In other words, the proverbial carrot on the stick."

McCarthy was critical of the British government's economic policies. He said the Thatcher government looks hard at how British trade unions affect the economy, and then wonders what can be done, instead of looking at the effective control of the economy by management.

Free market view

"totally idiotic"

The anti-union view, championed by Free Market Economists, is "totally idiotic," McCarthy said. Thatcher's "free-market" view of the British economy holds that the legal powers of unions — the right to strike and right to be recognized — are the biggest obstacles to economic advancement, said McCarthy. As well, this outlook holds that unions "destroy the labour market through the legalized use of coercion."

Lord McCarthy said that unions are blamed when governments find it impossible to correct economic ills that are usually the government's fault, he added.

Under Thatcher, the Tory government has been busy legislating against trade unions. As soon as 1985, the Thatcher government is expected to "abolish the right to strike in all

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Botha brew banned

by Leela MadhavaRau

Students at Macdonald College will do without Carling Black label beer for another year.

Last Thursday students at McGill's School of Agriculture and Food Science in St. Anne de Bellevue voted to continue their boycott of the Carling O'Keefe, Rothmans, and Seagram's companies as well as the Bank of Montréal.

Approximately one third of the student body cast ballots with 185 voting for the continuation of the boycott and 157 voting against.

A second question on the referendum asked whether students wished the Mac-

donald Student Council to look into other measures of censure against South Africa. The majority voted yes: 262 votes in favour, 66 against and 44 spoilt ballots.

McGill University maintains all its accounts with the Bank of Montréal. This bank has outstanding loans to the South African government and its agencies.

In South Africa, the apartheid government denies the majority black population all human rights.

Boycotts have been sanctioned by the United Nations, World Council of Churches and anti-apartheid groups as an effective means of combating the apartheid system.

Biotech chair erected

by Heather Penluk

Canada's first Chair of Biotechnology has just been created at McGill.

The \$75,000 chair was awarded to Dr. Kevin Ogilvie, a top organic chemist, by Canadian Pacific Limited, and announced Wednesday at a news conference in the Arts Building.

The chair will allow Ogilvie to devote more time to

biotechnology, both nationally and at McGill. McGill will create an office of Biotechnology, which Ogilvie will head.

Ogilvie made great advances towards a cure for herpes and is well-known in the Canadian scientific community for his development of the "gene machine," a device which synthesizes nucleic acids (DNA and RNA).

DAILY

On males and white liberals

Should we give men the vote? That was the topic at the weekly Women's Union meeting last Tuesday night.

Some men think they should be able to vote on McGill Women's Union issues. They also wanted to sit on the Co-ordinating Committee. Some women agreed with them.

I don't. I don't want men to vote in the Women's Union, anymore than I want white liberals to tell me how to cope with racism.

I also have little or no sympathy when males or white liberals give vent to cries of "discrimination, discrimination."

Men hold most positions of power in this society, they make more money than women, they have more seats in the government.

The oppressed cannot discriminate against their oppressors. To suggest women are guilty of reverse discrimination, is to ignore the purpose of the women's movement.

Feminism is a conscious, or self-conscious protest movement arising from the struggle against the systematic oppression of women based on sex. Men are not capable of defining the needs, desires and priorities of the women's movement. Women should be the ones ending that oppression.

Male cries are often based on frustration at being left out of a decision making process. That problems can be faced, worked out and decisions made *without men*, is a blow to the egos of some males.

Sympathetic males, willing to play supportive roles are appreciated. I do not want males on this campus to distance themselves from the issues raised by women. I ask simply that their participation be limited to supporting us — putting up posters, minding children, while we work or protest.

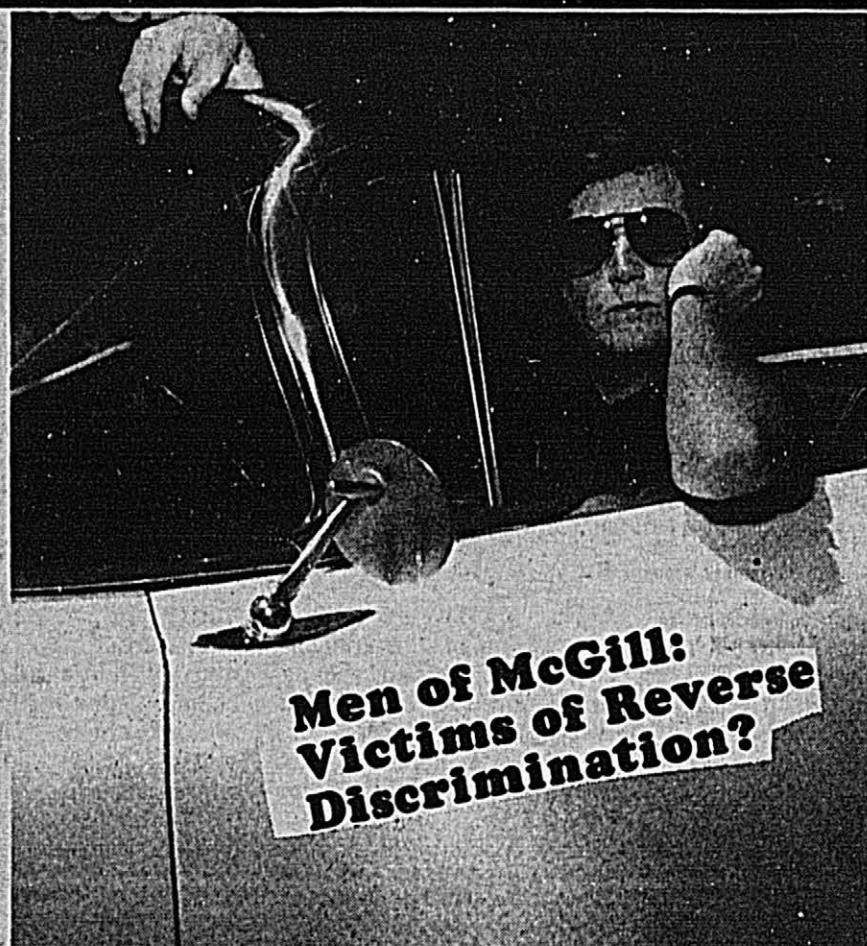
The male who claims to be a "feminist" can be compared with to white liberals who react angrily when coloured groups reject their help. They cannot understand. It is black, Asian, Oriental, Middle Eastern women and men who endure the daily rigours of racism, not the sympathetic white individual.

Don't misunderstand, the help of white sympathizers is drastically needed. However, this aid will be enhanced by the ability to occasionally step out of the picture and allow those who live a condition to make the decisions.

The same argument is applicable to coloured women. No one will deny the racism felt by black males, however, "Black and white men, regardless of their class position, align with each other on the basis of shared sexism. Black men who are victimized by racism in the same way as black women, act as sexist oppressors of black women. This points to an underlying failure on their part to understand that although sexism does transcend class barriers, it only acts in the interest of one class-the rulers." (Brixton Black Women's Group)

We will never agree on every issue, why should we? However, debate, criticism and deciding what to do about our situation, is best done with other women. All women share one common oppression — gender. The fight against this discrimination should be carried out by the victims: Women.

Leela MadhavaRau



**Men of McGill:
Victims of Reverse
Discrimination?**

HYDE PARK

To the Daily

In response to Franklin Young's letter dated September 17, 1984 in the *Daily* on the subject of "MSS rejects three major banks (September 10)", I would like to clear up some misconceptions by Mr. Young concerning his so-called "misplaced idealism of the members of Students' Society".

Firstly, the President of Students' Society, Grace Permaul, and I made it clear during our campaigns that we support divestment in South Africa. Since the students knew exactly what our platform was, and they elected us, it is then quite clear that we have been mandated by students to support divestment. That is actually what we did in our dealing with the banks.

Secondly, the Students' Society of McGill University has supported divestment in South Africa since the topic was first brought to the attention of McGill students in 1979. From that time, each and every student government has taken a strong political stand on this issue. Furthermore, the Students' Society has brought this issue to the McGill Board of Governors insisting McGill withdraw its accounts from the Bank of Montreal which has commercial ties with the régime in South Africa.

The action of this year's executive is consistent with the traditional pattern of decision making and respects the motions passed by previous councils, and the 1983 referendum passed by students in favour of divestment. If the students wish to retreat from this path, they should express this view by asking their representatives to defeat a motion of support for divestment in Council. Until such time, the Students' Society will continue to support divestment, as it was mandated by the majority of the students.

The Students' Society of McGill University has in no way denied the students of McGill the right to enjoy improved banking services in a central and convenient location, as suggested by Mr. Young. What the Students' Society will do to carry out the wishes of the students is to allow a bank which has no commercial tie with the South Africa régime to install a banking machine in the University Centre. The Students' Society is in the process of looking for an appropriate bank to provide this needed service.

I disagree totally with Mr. Young's perception of the Students' Society's action as insignificant. Mr. Young has admitted in his letter that the apartheid policy of the South African government is reprehensible, yet he is contradicting his own statement by attacking the cause to divest from South Africa. Mr. Young claimed that what the Students' Society did was insignificant. Again, I disagree. With a little foresight, it is obvious that the actions of the Students' Society of McGill University will be seen as an example for other students' societies across Canada, as well as for those concerned groups fighting for the cause in South Africa. What the McGill Students' Society does alone is small, but there are many such groups in the world who are all contributing a little to this cause. By adding all these small and "insignificant" contributions together, the end result could have an enormous impact. If all the small groups held the same views as Mr. Young, that is, that their actions would be insignificant to the cause and that the South African government and the corporations of that nations would be unaware and unaffected by their actions, then the powerful force released by the joint actions of these small groups would not be realised, and the blacks of South Africa would continue to suffer, because some people believe what they do is of no significance.

Yat K. Lo
MSS Vice President Internal Affairs

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LETTERSLETTERSLETTERSLETTERSLETTERSLETTERSLETTERSLETTERSLET

To the Daily:

Re: "All Ideas Are Dead" by Albert Nerenberg, *The McGill Daily*, September 17, 1984.

Many Arts students, myself included, are confused by Albert Nerenberg's article "All Ideas Are Dead." We wander through the clouds of flatulent gas in the Arts Building Crypt, wondering, "what, exactly did he say; what exactly did he mean; what exactly was his reason for writing; and where exactly, did he fetch some of his contentions?"

Perhaps Mr. Nerenberg was subjecting us to his verbose and cynical worldliness to flatter his own ego with self-satisfaction; perhaps he derives enjoyment from sweeping negativism or thrills in diagnosing the ills of our decadent society; perhaps he had a more constructive aim: to complain about it, to rally support and rouse the "Artsies" of the world, to say "I'm mad as hell and I'm not..." however. It does not appear that Mr. Nerenberg likes us very much — it hurts, Albert, to be likened to a form of defecation. Perhaps he was simply trying to brighten up our day.

You see, it is not at all clear what Mr. Nerenberg's purpose was, in writing the article; from reading it, one gets the distinct impression that he had no purpose, except maybe to downgrade the academic traditions of the world, in declaring that ideas — the human and humanistic element of intelligence — are dead. But what purpose did his rantings achieve? The reason for which we question whether or not he had a constructive aim is that the article did no constructive good. It "dissipated" like the quaint simile-farts he invoked. Why, Mr. Nerenberg, did you not realise that you were writing about a moral dilemma, rather than something to simply bitch about? Why did

you not strike out against the inequity you discussed, rather than simply allowing it to deepen your grudge against the world? Why did you have to lose control, and declare ideas dead, when this is obviously not the case, when they are only in danger of dying, due to the stifling action of numbers, practicalities and dollar signs? It is not your duty to perform post-mortems on the humanistic tradition, but to ensure that it is never necessary to do so. In this respect, you have failed, my friend. Ideas may be threatened, may be in danger of dying, but they are not dead yet.

If they were, you would not have written the article, and I would not have answered it.

Andrew Burgess
Arts, U1

Ed. Note

The editorial "All ideas are dead" did not refer to Arts studies as "clouds of flatulent gas" nor to Arts students as "a form of defecation." Rather, it stated that, during a severe recession, in the eyes of those employed in technical fields "Arts studies dissipate like farts."

Mr. Burgess' remarks connecting his studies to flatulence are the product of his own imagination.

To the Daily:

The current debate in your pages on "war toys" is verging on the ridiculous. Wars took place in the past when G.I. Joe had not yet been invented and wars will take place in the future when G.I. Joe is forgotten. Moreover, most of the wars currently waged in the world are being conducted by combat-

tants who have never heard of G.I. Joe. To ignore these obvious verities reveals not only a shocking lack of historical knowledge, but also a weak conception of reality.

Rob Hantla
Arts U3

To the Daily:

I am sure you are all aware of the events that took place at the McGill-Queens Football game last Saturday and the stir caused in the *Sunday Express*, *Montréal Gazette* and the radio talk shows, particularly the Joe Cannon show on CJAD.

On the next day (Tuesday), after the Joe Cannon show, I was particularly struck by a caller who identified himself as a McGill engineer and who proceeded to defend himself and his colleagues by explaining that the McGill engineers were only out there to have some good clean fun and all the damage and outrage had been caused by the Queens students! He then pleaded with the public to understand that McGill engineers are not a bunch of yahoos but rather responsible young adults who have true concern for other people's feelings and property.

I think the young man misses the point: rather than defend yourself by pleading with the public, why not use this magnificent opportunity to demonstrate to the public and your fellow students your ability to enjoy yourselves, to use your resourcefulness, and to show your initiative that we all know you possess.

UNDERSTAND THE CHALLENGE FROM QUEENS — not only are Queens sending their football team to challenge McGill, they also drum up 4,000 or so students to accompany their team — they have their traditions with the Queens' Band, their colours, war paint and cheerleaders, but after all this

drumming up in Kingston, they arrive here to realise nobody gives a damn — what a hell of a letdown — so they proceed to try and destroy the place.

Here is why I am writing to you. Why not respond to the challenge as a students' body? Let's get the McGill engineers to show the way.

What a glorious opportunity for you all to show the 6,000 or 7,000 people what you are all about. People and students are interested in what you do in other fields, such as music, arts, physical activities and other sports.

You would be starting from scratch — as nothing is being done right now. You do not have to copy what's done in the USA; you can be original and just understand the enjoyment these schools get from doing things that are positive, imaginative and stimulating.

First thing to get started is the Stadium itself — the place is in a mess; it needs some housekeeping, organisation, volunteers at the games including committees to welcome visiting students, ushers at the game to make sure everybody is being treated properly, committees or groups for pre-game, half-time and after-game activities, and some decently run concessions.

You have to start it and run the show. We can be reached through the Marlett Foundation, Charlie Baillie, Coach of the Football team, or Bob Dubeau, your athletics director.

Let us hear what you have to say. The opportunity is so obvious. Are you interested? Are you up to meeting this challenge to show some enterprise and creativity?

Vaughan E. McVey
BSc, 1957

To the Daily:

Dear Students' Society,

In the first two weeks of school, we have seen the beer prices in Gertrude's Pub and Pizzeria rise to \$1.50 and subsequently to \$1.60, and increase of 23 per cent over the past academic year. The present non-prime time price is higher than last year's prime time charge which leads us to believe that either prime time with its high density of people now occurs during class hours or that someone is trying to make a huge profit from an uniquely located establishment.

While some increase might be justified, we were led to believe in the last year's referendum that an increase in student fees would prevent such a ridiculous pricing policy from occurring.

Traditionally, the university pub has been an institution where students could relax between and after classes. To cater to the financially insecure student, of which most of us are, and to offer an alternative to generally high prices in commercial establishments, student pubs have, until now, been a place for everyone to relax. Presently, Gertrude's has the distinction of charging more for beer than do many local lunchtime establishments.

We say down, both figuratively and literally, with the high cost of Gertrude's beer. In addition, we implore any other students tired of having only loose change when leaving Gertrude's to voice their frustrations and help make relaxation affordable.

Ian Little
BSc U3
Bill Todd
BA U2
Jean-Michel Arès
B. Eng. U3

Welcome to the real world.



Are you a non-business grad looking for a career?

Then think about Procter & Gamble — one of the most successful packaged goods developers and marketers in the world, with international operations in over twenty countries.

In Canada, more than two thousand people work for Procter & Gamble. An efficient core of men and women in all areas of technical and business management lead the Company. These are the people who have made household names of such consumer products as Ivory, Crest, Tide and Pampers, just to name a few.

Procter & Gamble is actively searching for graduates from every discipline, who demonstrate innovation, leadership, interpersonal skills and a drive for excellence. We value these qualities more than a specialized education.

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Corporate Recruiting Manager
P.O. Box 355, Station A
Toronto M5W 1C5

MINISTERS

OF JUSTICE

by Lorianne Weston

It is 1994. Jane Smith receives a letter from the Montréal Parent Licensing Bureau. "Oh, John," she calls to her husband, "we've been refused... it says we're high-risk parents and we must pass the anti-child abuse course. Thank goodness we found out before it's too late."

This scenario could be a reality if David J. Roy, Director of the Centre for Bioethics and professor at McGill, has his way.

Dr. Roy addressed the Fifth International Congress on Child Abuse and Neglect at the Palais des Congrès this past week. He spoke on the role of "professional parenting" in preventing child abuse.

The conference, attended by 2400 delegates from 44 countries, presented over 250 discussions and workshops on the theme: "Preventing child abuse: a community responsibility."

It is only recently that the public has become sensitised to the gravity of the child abuse problem.

In Québec alone, almost 2,500 cases of child abuse were reported to the Comité de Protection de la Jeunesse in 1982. Of these, 1,581 were victims of sexual abuse, 656 were victims of physical abuse, and 81 were neglected children. The great majority are children abused within their own families.

sideration when laws are enacted.

At present, a UN draft convention on the rights of the child (which, if ratified, carries legal weight in the International Court of Justice) is in the works. Among the proposed additions are specific clauses dealing with imprisonment and detention of children.

This is a direct response to the situation in Argentina, where hundreds of children — "los desaparecidos" — have been taken from their parents and forcibly adopted into the "better environment" of families connected with the military regime in power until December, 1983.

Such legislation is also necessary to protect children in other Third World countries from exploitative labour laws.

Child abuse: producing more than physical scars

Potential abusers watched? abusers

The delegates discussed the prevention, detection, and treatment of sexual, physical and emotional abuse, as well as the interdisciplinary roles of medical, social work, psychological, and legal communities in dealing with these issues.

Children's rights

vs.

parents' rights

Child abuse cases often involve ethical conflicts — primarily, the balancing of parents' rights against the rights of the child.

Children's rights are a relatively new concept. The 1959 UN resolution, "Declaration of the Rights of the Child" states: "The child shall be protected against all forms of neglect, cruelty, and exploitation."

According to the UN, the child's best interests shall be given paramount con-

In a workshop on ethics and the law, a U.S. lawyer asked if certain people must be permanently stigmatized in the interests of protecting the child. Should a person "at risk" — an abused child who is more likely to be an abuser — be under regular surveillance?

This issue is particularly relevant in light of recent reports of child abuse in New York day care centres. A bill is currently before the New York legislature, which would allow child care employers to conduct extensive background searches on potential employees. Opposition critics claim this would constitute an abuse of civil rights.

Pre-natal protection

Jean-Louis Baudoin, lawyer and law professor at the Université de Montréal, questioned the role society should take

in the prevention of abuse *in utero*. What role should the society take vis-à-vis expectant parents who are known to be alcoholics, drug addicts, or child abusers?

There have been some cases where the danger to the child was considered so overwhelming that children have been taken into custody at birth by social service agencies.

The question of evidence in cases of abuse, especially sexual abuse, is another contentious area. We have come a long way since the time when evidence given by women and children was considered suspect due to their supposedly inherent psychological weaknesses. This view was supported by studies which included reports subsequently found to have been falsified, or which omitted medical evidence contradicting this view.

Should children testify

Recent trends in North America are moving toward the "Victim Advocacy Model," in which the child has his or her own advocate in the courtroom. Even this has been criticised by some professionals, who claim the procedure would be too traumatic for children.

D. Ross, a U.S. lawyer, supports using alternative methods of admitting testimony in child abuse cases, such as videotapes and hearsay evidence, to eliminate the presence of the child from the courtroom.

A recent Colorado case, *State vs. Middleton*, is a positive indication for the future in sexual abuse cases. Although the child in this case recanted in court (perhaps due to parental pressure, which is common in incest cases), the court agreed to consider the child's previous testimony as being the most credible. Such decisions may have repercussions for adult sexual abuse cases.

A song performed by "Children's Creations," a non-profit theatre group for children up to 19 years old, had a message of hope for all involved in preventing child abuse:

"We can make it work, right now."

A contract for

A rare opportunity was presented to the Dean contract between Dr. R. Knystautas and the law made accessible for about fifteen minutes.

At that time, Vice Principal Research and MacLachlan personally intervened. He said: "The Dean did not confiscate our notes:

CONTRACT 03Su 97702-0-2691

Principal Investigators: Professor R. Knystautas, Moen.

You are required to carry out your proposal.

"The advantage of the distributed charge over conventional concentrated solid explosives applications is now recognised throughout the in-

"However, at the present time there is no developing field."

"To properly assess the effects associated with efficient understanding of unconfined fuel-air detonative description of the initiation and propagation of fuel-air vapor cloud..."

"Definitive experiments involving fuel-air that they cannot be performed in laboratories."

"...DRES (Defence Research Establishment) developing experimental facilities for FAE test."

"It is envisaged that significant advances in detonation and propagation of detonations associated with made."

"From the practical point of view one is interested that can be caused by a fuel-air explosive device of the fuel-air cloud that is within the detonation."

"Thus, an accurate knowledge of these parameters is a realistic assessment of the destructive potential."

"...field tests at DRES (Defence Research Establishment) used to complement those on fuel-oxygen experiments at McGill."

The contract specifies that the research carried out by Physics Group focuses on the "initiation requirements and composition limits of their detonability".

Albert Nerenberg



Fuel Air bombs can seep into buildings before they are detonated.

Students teargassed at

NANAIMO BC.(CUP) — Malaspina College students were in tears recently, but not over the usual back-to-school blues.

Students walking to classes in the early morning were greeted by tear gas fumes drifting in from nearby Nanaimo military camp, where riot-control gas was being tested.

Building director Dave Wadeson said when he arrived

on the scene, his throat went dry, his nose became congested and his eyes began to water.

The physical effects disappeared once people went indoors, he added. By the time fire fighters came to investigate, the fumes had completely dissipated.

College president Bruce Fraser sent an angry letter to the camp commander, demanding that tear gas exercises be stop-

ped. "We planned to see had a publication. The Gordian knot of the camp's long history on the

FAE research

at spring when the contents of the
ment of National Defense were

an of Graduate Studies Gordon
n't think you should have that."

Dr. J.M.S. Lee, Professor J.

April 1980.

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rges in a number of military ap-
national defence community."

Canadian expertise in this rapidly

Fuel Air Explosive Device a suf-
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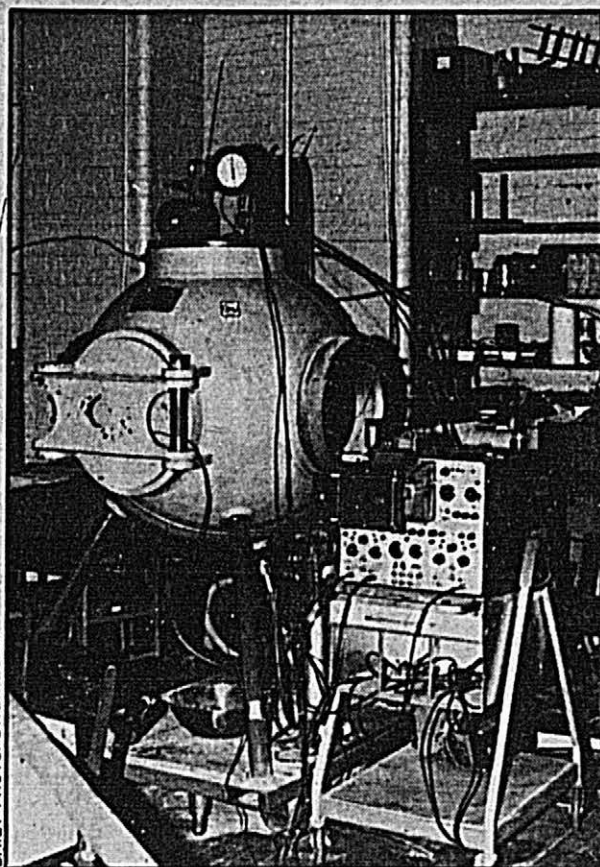
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Mark Smith



MacDonald building Laboratory with equipment.

Technology talks politics echoes

Albert Nerenberg
and Mark Smith

Every Canadian was weaned on this story of the arms race: Once upon a time, there were two vastly different social systems, each supported by opposing ideologies and cultures. Together, they're en-rolled in a never-ending cold war.

But, another view is surfacing.



s, foxholes and

Accidentally

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nor did anyone check
the effects of the gas
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Fraser said in the let-

commander major
Reed said an unex-
preeze blew onto the
Obviously, we will no
duct open-air testing
mpus."

Ideology, along with essential economic differences between both Eastern and Western bloc countries, is becoming less and less important. Two massive inefficient bureaucracies are subsuming ideology and culture in a competitive drive for technological military superiority.

By bringing new technological and theoretical advances to the military strategists, military research defines, shapes, and ultimately determines the future of international political relations.

According to Ahab Aziz and John Bacher, two graduate students at Ontario universities who have done a recent study on military research at Canadian universities, "policies are being constantly initiated and interrupted, based on the availability of new weapons systems. In a sense, military research and development plays the role of puppeteer and international policy that of the puppet."

"The Soviet Union-American confrontation should not be viewed as being caused exclusively by real political and economic contradictions; to a large extent it is the outcome of a clash between two war machines driven by the autonomous development of technology," the study concludes.

The authors claim this makes the potential for a diplomatic resolution of the cold war less and less likely.

...McGill's quiet study

continued from page 1

tion of military research and develop-ment in Canada.

Knystautas and Lee deny their research has direct influence on the development of FAE weapons. Both professors insist their fields are "pure science."

Does pure science exist on a planet in the midst of a global escalating arms race?

Knystautas and Lee say they are not responsible for what somebody else does with their research.

"Whatever uses they put it to is none of my business" said Knystautas. "I don't deal with the social implications."

But Dr. Don Bates, a physician with the McGill Study Group for Disarmament, disagrees.

Asked about scientists' social responsibility, Bates said, "Nobody in our society can dismiss the social implications of what they do. I don't think a scientist in search of knowledge can be any less responsible than a businessman in quest of profit."

"Research cannot simply proceed because it is research," he says.

Lee says "who sponsors it (the research) is immaterial." He said combustion research has a wide spectrum of applications as much as it has military applications.

"If you buy a knife, you can use it to kill people, or you can use it as a tool,"

he says.

"It's like the discovery of fire, says Knystautas. "Now we can cook but we can also napalm people into shrivels."

Prior to the DND project, Dr. Lee did "detonation research" at McGill for the United States Air Force for over ten years.

From 1972 to 1981 (the years when the technical problems of FAEs were being ironed out), Dr. Lee received a total of \$535,781 in grants from the USAF to conduct experimental work on the "Fundamental Mechanisms of Diverging Detonation Waves and Combustion Dynamics of Detonation Lasers."

He defends his involvement with the U.S. military, saying, "If you knew the mathematics you were researching could be used to calculate the trajectories of a missile, would you stop researching those basic mathematics?"

Lee claims he knows nothing about FAEs.

David Jeffrey, a mechanical engineering professor and a member of the McGill Employees for Nuclear Disarmament spoke to the *Daily* on the subject of "pure science".

"Every scientist must deal with the military presence in some way. I deal with it by working in an industry fairly distant from the military world. Others deal with it by labelling their work 'pure science' and disregarding the applications of that work," he said.

FAEs: 'inhumane' anti-personnel weapon rivals atomic explosion

Fuel air munitions were developed for use toward the end of the war in Vietnam.

According to the authoritative 1978 book *Arsenal of Democracy* by Tom Gervais, "this new type of air munition uses highly volatile fuels, including ethylene oxide, propylene oxide, meththlacetylene, propadiene, propane and butane, to produce an explosive rather than incendiary effect.

"Released into the air they form a highly combustible cloud that, on detonation, produces more than five times the energy of its equivalent weight in TNT."

Gervais adds that FAE weapons "are a formidable anti-personnel weapon, producing blast overpressures that cause lethal concussion."

The potential of these weapons is illustrated effectively by a description of a particular FAE used by the US military called the BLU-82B 15,000-pound bomb.

"It produces an explosion of a size and intensity that observers have described as 'the closest thing to a nuclear bomb.' Producing blast overpressures in excess of 1000-pounds per square inch, it literally shears off trees and other obstructions at ground level.

"The only way to understand the force of concussion it brings to bear on the human body is to picture a man being hit by a baseball bat at full length, and then to imagine him hit by that kind of force at every exposed portion of his body simultaneously."

It is for this reason the Stockholm International Peace Research Institute (SIPRI) have classified FAE weapons as "inhumane and indiscriminate weapons," and in 1979, attempted to negotiate a ban on their production and use.

In its 1980 yearbook, SIPRI said:

"It is a moot point whether FAEs can be described as 'asphyxiating or deleterious gases' in the sense of the Hague Declaration.

"They asphyxiate by physical rather than chemical means. For the victim, the effects are similar whether the lungs are burst, or corroded by chemicals, as during World War I."

After a special United Nations conference in Geneva in Sept., 1979, SIPRI wrote, "...cause for disappointment is that no restriction was placed on Fuel-Air Explosives."

Albert Nerenberg

Mark Smith

1/3 OFF

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CBC STEREO 93.5 FM

There will be a *Daily* staff meeting TODAY at 16h00 in Union B03. All voting staff should attend as we need quorum in order to elect Supplement, Sports and Photo Editors.

There will be a *Daily* newswriters meeting today in Union B03 at 15h00, to be followed by a staff meeting

CLASSIFIEDS

continued from page 2

389 — MUSICIANS WANTED

Drummer with experience wanted for McGill-based New Music dance band: Police, Bowle, Holly, etc. Call Leif 482-3207.

EVENTS

TODAY:

Interested in Sororities? Don't miss Gamma Phi Beta's Tropical Tea, today from 15h-17h00. Come check out what sororities are all about at 3641 Aylmer.

Project Ploughshares — (McGill Disarmament Group) meeting tonight at 19h00 in room 107/108 Student Union Building. All welcome.

McGill Dance Club — Ballroom dancing presentation, 12h00, today in the Union Ballroom.

Auditions will be held for J.M. Synge's *The Playboy of the Western World* today from 12h-15h00 and tomorrow from 16h-18h00 in the Morrice Hall theatre (room 017). All are welcome; no experience is necessary.

Term Paper Research Workshop — For Social Science subjects (eg. Political Science, Psychology, Geography, Economics etc.), from 13h-14h00 and from 15h-16h00. Starts at the Undergraduate Library Information Desk — main floor. For info, call 392-4288.

Electronic Music Studio — a contemporary music concert by GEMS at Pollack Hall, 18h00. Free admission.

Anthropology Students' Association — extremely important meeting today at 16h30 in Leacock 819. All anthro students are welcome.

Daily Staff meeting — today at 16h00. Elections for Sports editor, Photo editor, Supplement Editor and possibly for production managers will be held. Newswriters meeting at 15h00.

Kappa Kappa Gamma — Invites all interested women to a "Footloose" Alumnae Surprise Dinner, Tuesday night from 18h-21h00. All are welcome at 526 Milton, corner of Aylmer.

Kappa Kappa Gamma Women's Fraternity wants to meet you. Women are invited to come to our "TOOTSIE" Taco Delight Lunch (12h-14h00) today. It promises to be a good time. 526 Milton, corner of Aylmer.

Drop in at Newman with Rev. Chris Ferguson, Chaplain. 10h-12h00, Chaplaincy Service, 3484 Peel.

Savoy Society — first meeting today at 19h00 in room 302, Union Building. Cast list is posted by Savoy office, room 429.

TUESDAY:

Term Paper Research Workshops — For Humanities subjects, 13h-14h00. For Social Science subjects, 15h-16h00. Starts at the Undergraduate Library Information Desk. For more info, call 392-4288.

Alliance Québec — Sam Berliner, city councillor, will be speaking on "City Hall — how to make the system work," at 19h00, the Atwater Library, 1200 Atwater Ave. Refreshments served. All welcome.

Olé Olé! Be there tomorrow for Gamma Phi-esta! Mexican lunch for all those interested in Sororities. Wed. Oct. 3, 12h-14h00, 3641 Aylmer.

McGill Christian Fellowship — meeting at 19h00, Union Building, room 107/108. Prof. Tom Wright will speak on the topic "What did the Cross achieve?" Refreshments will be served.

Vanier College student paper smashed by student council

by Stephen Berkowitz

The Snowdon Press was closed down and Vanier Student Association (VSA) has installed a new paper.

The Snowdon, used to be the student newspaper at Snowdon Campus of Vanier College. VSA 'gave the franchise' which The Snowdon had for 11 years, to an 8 month-old publication, The Alternative.

John Moore, Vice-President-Internal said, "Funding for the Snowdon Press was stopped because their tactics appeared to be a return to their confrontational attitude of last year."

Moore said, "harrassment by Canadian University Press (CUP)" was another reason for the Council's decision.

CUP is a national cooperative representing student newspapers, its services include advocacy for members who find themselves in conflict with 'autocratic' Student Councils.

CUP representatives Peter Kuitenbrouwer (CUP Québec field worker) and Julian Feldman (CUP Québec President) threatened Vanier Council with legal action because the council's actions were in breach of advertising contracts.

According to Christine Donahue, Snowdon editor, "At the beginning of the year, they

(the council) told me there would be money for the first issue no matter what."

The council then announced they were "deciding which of the two newspapers to fund."

The Snowdon submitted their budget prior to the start of the academic year and Council promised funding. Last Wednesday,

the Council announced they had decided to fund the Alternative.

The Alternative was started last spring as a student initiated project, funded for one semester only by the administration. They produced three issues last year.

Before the Press' demise, efforts were made to merge the two papers. These meetings were marked by bickering and inflexibility.

"They kept calling us gar-

bage," said Donahue. "With that kind of attitude it was very difficult to come to any sort of arrangement," she added.

Both sides agreed in principle to the final version of the much debated constitution.

This was, for the most part, based on the Snowdon constitu-

tion, which contained clauses relating to protection against abuses of authority by Student Council.

Three hours later, Bill Marvidis, editor of The Alternative, refused to sign the agreement. He complained it wasn't fair.

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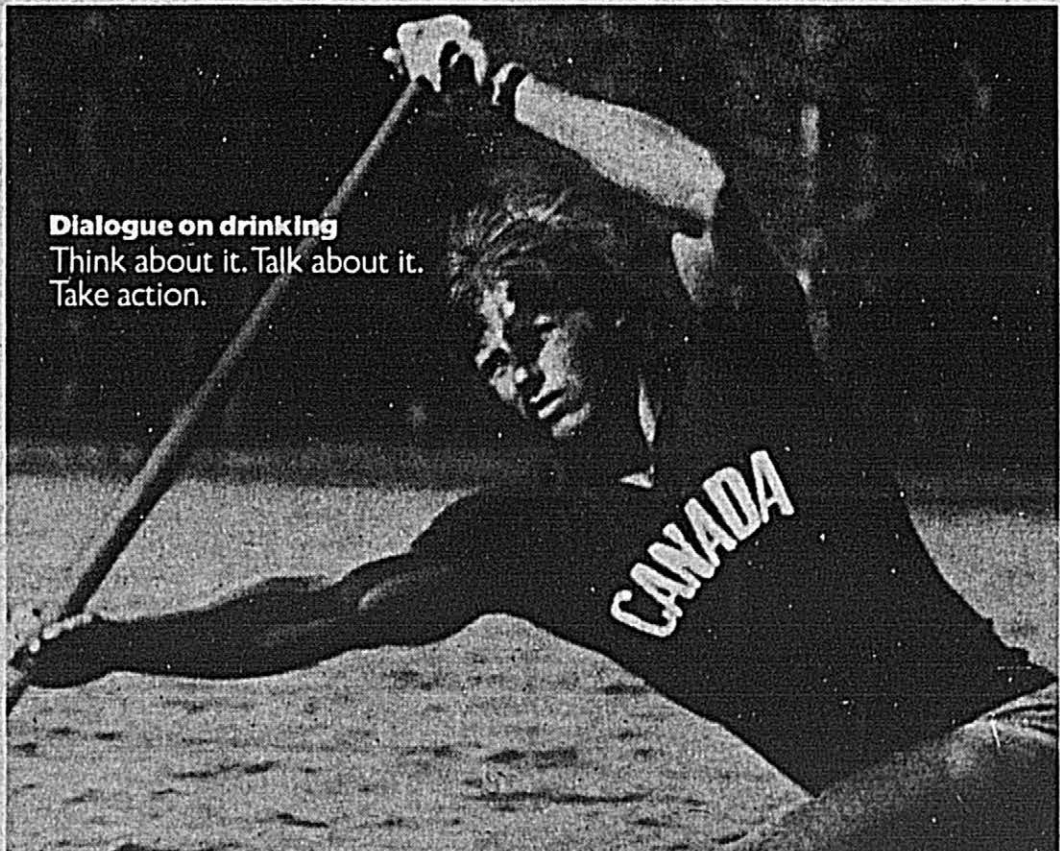
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JULIÁN MARIAS
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Forms of Human Life**
Wednesday 3 October 1984
Leacock 26
8 p.m.
The Public Is Welcome

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Think about it. Talk about it.
Take action.



**TAKE ACTION ON
OVER-
DRINKING.**

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but I certainly don't think you have to get the gang
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the fact you've had
a bit of exercise."

JOHN WOOD
OLYMPIC SILVER MEDALLIST

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There will be a meeting on Wednesday October 3, 1984 at 7:00 p.m. in the COTC Lounge of Currie Gym, for all women wishing to play Women's Varsity Ice Hockey this year.

KAPPA KAPPA GAMMA

Women's Fraternity invites girls to visit:
Monday, Oct. 1st **"TOOTSIE" TACO DELIGHT LUNCH**
(12-2 pm)
AND
Tuesday, Oct. 2nd **"FOOTLOOSE" ALUMNAE SURPRISE DINNER** (6-9 pm)
COME JOIN THE FUN AT 526 Milton

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Lecturer: Rabbi M. New Spiritual Leader, Chevra Mishnais Jacob Joseph Synagogue, Chomedey.

Date: Tuesday, Oct. 2 — 7:30 p.m.

9:30 p.m. Live on T.V.
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Social Sciences 1-2 pm & 3-4 pm	Humanities 1-2 pm Social Sciences 3-4 pm	Humanities 3-4 pm Social Sciences 5-6 pm	Social Sciences 1-2 pm & 5-6 pm	Social Sciences 10-11 am Humanities 1-2 pm
MONDAY 15	TUESDAY 16	WEDNESDAY 17	THURSDAY 18	FRIDAY 19
Humanities 1-2 pm Social Sciences 5-6 pm	Social Sciences 1-2 pm Humanities 5-6 pm	Social Sciences 5-6 pm	Social Sciences 5-6 pm	Humanities 10-11 am Social Sciences 5-6 pm

Workshops start at the Undergraduate Library Reference/Information Desk
Info & Sign Up 392-4288

Native nursing centre formed

SASKATOON(CUP) — The University of Saskatchewan hopes to boost the number of native nurses in Canada by setting up a nursing centre specially designed for native students.

U of S nursing dean Una Riddley says the university wants to improve health care among Canada's native peoples and encourage natives to take up the nursing profession.

The proposed budget for the native nursing centre, slated for opening in the summer of 1985, is about \$130,000. The money will likely come from Health and Welfare Canada and the Donner Foundation.

"Two of the most expensive aspects of the program are counselling costs and a large recruiting activity needed across Canada to identify candidates for the centre," said Riddley. "The counselling will combat what would be called a high dropout rate due in large part to the change in cultural milieu for many of the students."

...trade unions

continued from page 3

essential services." As well, the minimum wage would be abolished. McCarthy expects the anti-union legislation to affect almost all the Public Sector. Further, teacher has sworn to pass anti-union acts every year until "we get it right."

Lord McCarthy believes the British labour movement has been thrown back to the first quarter of the nineteenth century by the Thatcher government.

Evénements



Events

THE POLITICAL SCIENCE STUDENTS' ASSOCIATION

**CONCEPTS: Journal of Politics
General Meeting**

- 1 Ratify Constitution
- 2 Elect Editor
Managing Editor
Editorial Board

Today Mon Oct 1st
Lea 424 4:00 pm

Get Involved



**THIS WEEK AT HILLEL, 3460
STANLEY ST. TEL: 845-9171**

TUESDAY, Oct 2

**Academy Award
Winning NFB
Documentary
"Flamenco at 5:15"
By Cynthia Scott at
Hillel at 2:00 pm.
Cost: Free**

Wednesday, Oct 3

YCR Film Series
presents
"Indiana Jones-
Raiders of the Lost
Ark" Starring:
Harrison Ford at 8:00
pm at Hillel—Cost;
Free

Thursday, Oct 4

"Careers"
With Ives Bellefeuille,
Federal Public
Service Commission.
**"Job Opportunities
and Government"**
At Hillel, at 4:00 pm

Friday, Oct 5

Yom Kippur Services
Kol Nidre 6:00 pm
and Saturday, Oct 6,
Morning Services at
9:00 am
Afternoon Services at
4:45 pm

**The McGill ARAB STUDENTS'
ASSOCIATION
will hold its
GENERAL ASSEMBLY**

on
THURSDAY OCTOBER 4, 1984

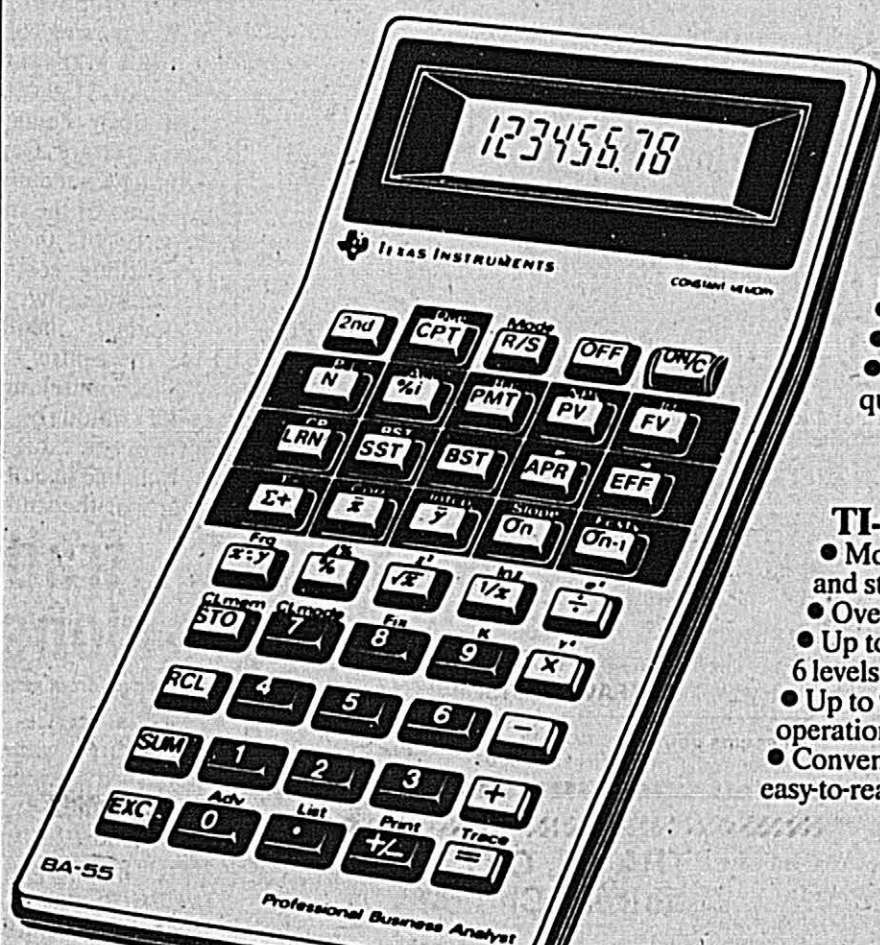
in
UNION BUILDING B09-10

8:00 pm to 10:00 pm

COFFEE WILL BE SERVED!

All members and new interested students are urged to attend.

Calculated Genius

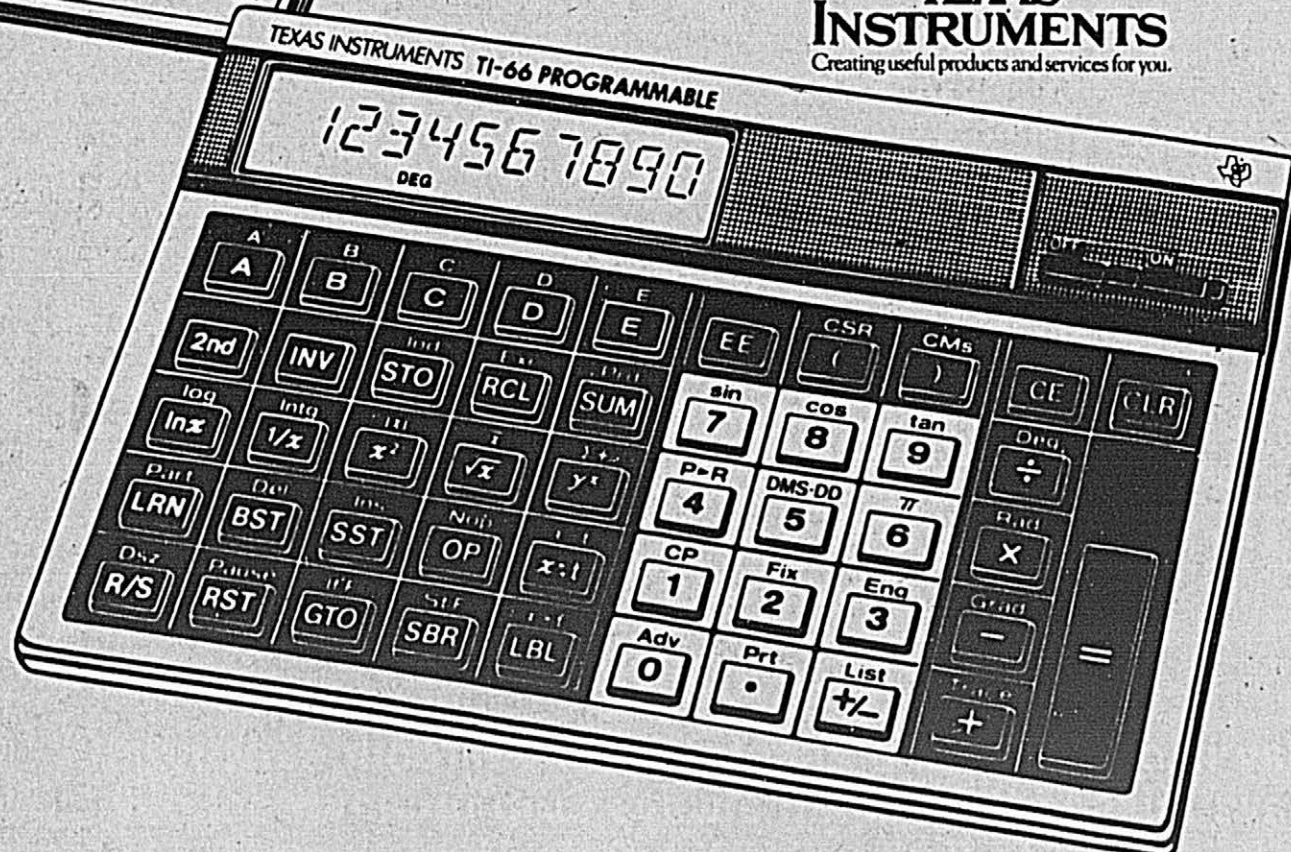


BA-55

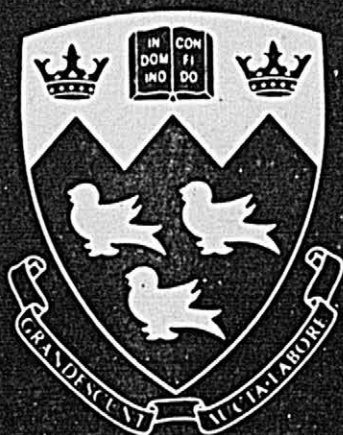
- Operates in three modes: financial, cash flow and statistical.
- Tilt-top styling makes the big 8-digit LCD display even easier to read.
- Constant Memory™ feature allows the calculator to retain stored data even when the power is switched off.
- 32-step programmability and 5 constant memories.
- APD™ Automatic Power Down.
- Comes with handy problem-solving guidebook and quick reference booklet.

TI-66 Programmable

- More than 170 built-in scientific, engineering, and statistical functions.
- Over 500 merged program steps.
- Up to 10 user flags are available, as well as 6 levels of subroutines.
- Up to 9 sets of parentheses allow up to 8 pending operations.
- Convenient horizontal design includes a large, easy-to-read, 10-digit liquid crystal display.



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INSTRUMENTS**
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**Dear McGill Students,
We invite you all to drop by the Union Ballroom
on Monday Oct. 1, 12:00 noon and find out more
about us. All you wanted to know about ballroom
dancing but never asked.**

**Yours Truly
McGill Dance Club**

845-7888

**Monday is our special presentation in ballroom dancing. If
you have missed it, you can always drop up any weekday
from 12:00 noon to 2:00 pm in the Union ballroom.**

LETTERSLETTERSLETTERSLETTERSLETTERSLETTERSLETTERSLETTERSLET

To the Daily:
Re: "All Ideas Are Dead" by Albert Nerenberg, *The McGill Daily*, September 17, 1984.

Many Arts students, myself included, are confused by Albert Nerenberg's article "All Ideas Are Dead." We wander through the clouds of flatulent gas in the Arts Building Crypt, wondering, "what, exactly did he say; what exactly did he mean; what exactly was his reason for writing; and where exactly, did he fetch some of his contentions?"

Perhaps Mr. Nerenberg was subjecting us to his verbose and cynical worldliness to flatter his own ego with self-satisfaction; perhaps he derives enjoyment from sweeping negativism or thrills in diagnosing the ills of our decadent society; perhaps he had a more constructive aim: to complain about it, to rally support and rouse the "Artsies" of the world, to say "I'm mad as hell and I'm not...;" however it does not appear that Mr. Nerenberg likes us very much — it hurts, Albert, to be likened to a form of defecation. Perhaps he was simply trying to brighten up our day.

You see, it is not at all clear what Mr. Nerenberg's purpose was, in writing the article; from reading it, one gets the distinct impression that he had no purpose, except maybe to downgrade the academic traditions of the world, in declaring that Ideas — the human and humanistic element of intelligence — are dead. But what purpose did his rantings achieve? The reason for which we question whether or not he had a constructive aim is that the article did no constructive good. It "dissipated" like the quaint simile-farts he invoked. Why, Mr. Nerenberg, did you not realise that you were writing about a moral dilemma, rather than something to simply bitch about? Why did

you not strike out against the inequity you discussed, rather than simply allowing it to deepen your grudge against the world? Why did you have to lose control, and declare Ideas dead, when this is obviously not the case, when they are only in danger of dying, due to the stifling action of numbers, practicalities and dollar signs? It is not your duty to perform post-mortems on the humanistic tradition, but to ensure that it is never necessary to do so. In this respect, you have failed, my friend. Ideas may be threatened, may be in danger of dying, but they are not dead yet.

If they were, you would not have written the article, and I would not have answered it.

Andrew Burgess
Arts, U1

Ed. Note

The editorial "All ideas are dead" did not refer to Arts studies as "clouds of flatulent gas" nor to Arts students as "a form of defecation." Rather, it stated that, during a severe recession, in the eyes of those employed in technical fields "Arts studies dissipate like farts."

Mr Burgess' remarks connecting his studies to flatulence are the product of his own imagination.

To the Daily:

The current debate in your pages on "war toys" is verging on the ridiculous. Wars took place in the past when G.I. Joe had not yet been invented and wars will take place in the future when G.I. Joe is forgotten. Moreover, most of the wars currently waged in the world are being conducted by combat-

tants who have never heard of G.I. Joe. To ignore these obvious verities reveals not only a shocking lack of historical knowledge, but also a weak conception of reality.

Rob Hantiss
Arts U3

To the Daily:

I am sure you are all aware of the events that took place at the McGill-Queens Football game last Saturday and the stir caused in the *Sunday Express*, *Montréal Gazette* and the radio talk shows, particularly the Joe Cannon show on CJAD.

On the next day (Tuesday), after the Joe Cannon show, I was particularly struck by a caller who identified himself as a McGill engineer and who proceeded to defend himself and his colleagues by explaining that the McGill engineers were only out there to have some good clean fun and all the damage and outrage had been caused by the Queens students! He then pleaded with the public to understand that McGill engineers are not a bunch of yahoos but rather responsible young adults who have true concern for other people's feelings and property.

I think the young man misses the point: rather than defend yourself by pleading with the public, why not use this magnificent opportunity to demonstrate to the public and your fellow students your ability to enjoy yourselves, to use your resourcefulness, and to show your initiative that we all know you possess.

UNDERSTAND THE CHALLENGE FROM QUEENS — not only are Queens sending their football team to challenge McGill, they also drum up 4,000 or so students to accompany their team — they have their traditions with the Queens' Band, their colours, war paint and cheerleaders, but after all this

drumming up in Kingston, they arrive here to realise nobody gives a damn — what a hell of a letdown — so they proceed to try and destroy the place.

Here is why I am writing to you. Why not respond to the challenge as a students' body? Let's get the McGill engineers to show the way.

What a glorious opportunity for you all to show the 6,000 or 7,000 people what you are all about. People and students are interested in what you do in other fields, such as music, arts, physical activities and other sports.

You would be starting from scratch — as nothing is being done right now. You do not have to copy what's done in the USA; you can be original and just understand the enjoyment these schools get from doing things that are positive, imaginative and stimulating.

First thing to get started is the Stadium itself — the place is in a mess; it needs some housekeeping, organisation, volunteers at the games including committees to welcome visiting students, ushers at the game to make sure everybody is being treated properly, committees or groups for pre-game, half-time and after-game activities, and some decently run concessions.

You have to start it and run the show.

We can be reached through the Marlett Foundation, Charlie Baillie, Coach of the Football team, or Bob Dubeau, your athletics director.

Let us hear what you have to say. The opportunity is so obvious. Are you interested? Are you up to meeting this challenge to show some enterprise and creativity?

Vaughan E. McVey
BSc, 1957

To the Daily:

Dear Students' Society,

In the first two weeks of school, we have seen the beer prices in Gertrude's Pub and Pizzaria rise to \$1.50 and subsequently to \$1.60, and increase of 23 per cent over the past academic year. The present non-prime time price is higher than last year's prime time charge which leads us to believe that either prime time with its high density of people now occurs during class hours or that someone is trying to make a huge profit from an uniquely located establishment.

While some increase might be justified, we were led to believe in the last year's referendum that an increase in student fees would prevent such a ridiculous pricing policy from occurring.

Traditionally, the university pub has been an institution where students could relax between and after classes. To cater to the financially insecure student, of which most of us are, and to offer an alternative to generally high prices in commercial establishments, student pubs have, until now, been a place for everyone to relax. Presently, Gertrude's has the distinction of charging more for beer than do many local lunchtime establishments.

We say down, both figuratively and literally, with the high cost of Gertrude's beer. In addition, we implore any other students tired of having only loose change when leaving Gertrude's to voice their frustrations and help make relaxation affordable.

Ian Little

BSc U3

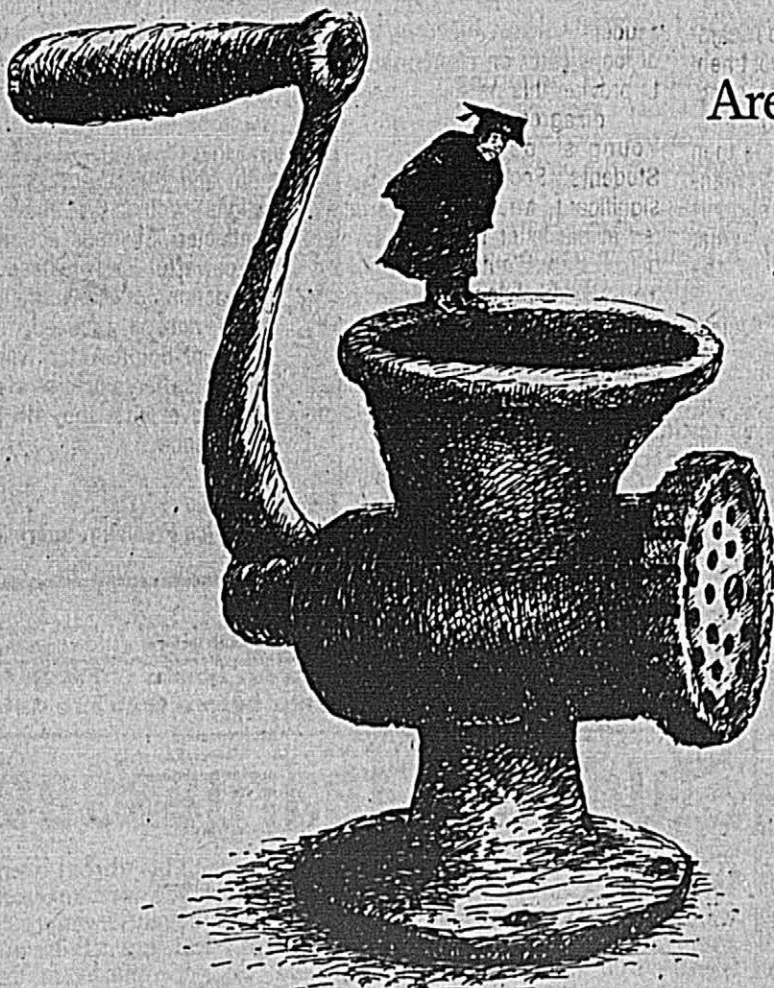
Bill Todd

BA U2

Jean-Michel Arès

B. Eng. U3

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Procter & Gamble is actively searching for graduates from every discipline, who demonstrate innovation, leadership, interpersonal skills and a drive for excellence. We value these qualities more than a specialized education.

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